

6AY3B

Half-Wave Vacuum Rectifier

NOVAR TYPE

For Television Damper Service

Electrical:

Heater Characteristics and Ratings:

Voltage (AC or DC) 6.3 ± 0.6 volts

Current at heater volts = 6.3 1.200 amp

Peak heater-cathode voltage:

Heater negative with respect to cathode^a 5000^b max. volts

Heater positive with respect to cathode 300^c max. volts

Direct Interelectrode Capacitances (Approx.):^d

P to (K,H) 6.5 pf

K to (P,H) 9.0 pf

Heater to cathode 2.8 pf

Mechanical:

Operating Position Any

Type of Cathode Coated Unipotential

Maximum Overall Length 3.005"

Seated Length 2.375" to 2.625"

Dimensional Outline See *General Section*

Diameter 1.062" to 1.188"

Bulb T9

Base Small-Button Novar 9-Pin with Exhaust Tip (JEDEC No. E9-89)

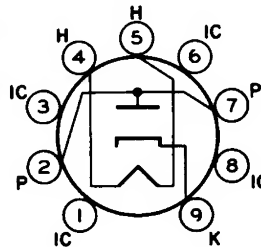
Basing Designation for BOTTOM VIEW 9HP

Pin 1 - Do Not Use^e

Pin 2 - Plate

Pin 3 - Do Not Use^e

Pin 4 - Heater



Pin 5 - Heater

Pin 6 - Do Not Use^e

Pin 7 - Plate

Pin 8 - Do Not Use^e

Pin 9 - Cathode

DAMPER SERVICE

For operation in a 525-line, 30-frame system^f

Maximum Ratings, Design-Maximum Values:

Peak Inverse Plate Voltage^a 5000 max. volts

Peak Plate Current 1100 max. ma

Average Plate Current 175 max. ma

Plate Dissipation 6.5 max. watts

Characteristic, Instantaneous Value:

Tube Voltage Drop for plate ma = 350 32 volts



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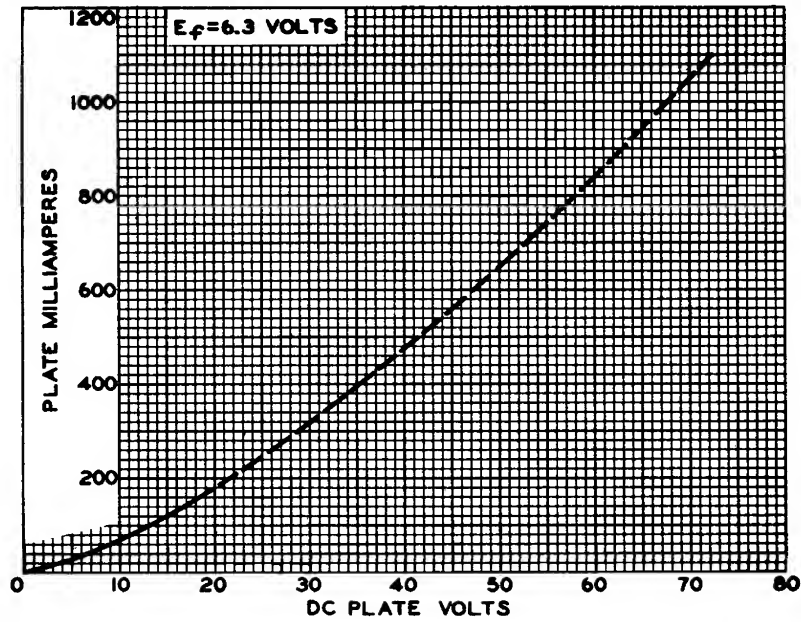
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- a This rating is applicable when the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.
- b The dc component must not exceed 900 volts.
- c The dc component must not exceed 100 volts.
- d Without external shield.
- e Socket terminals 1, 3, 6, and 8 should not be used as tie points. It is recommended that the socket clips for these pins be removed to reduce the possibility of arc-over and to minimize leakage.
- f As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.



6AY3

AVERAGE PLATE CHARACTERISTIC



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